| STATE | PROJECT | SHEET NUMBER |
|---|---|---|
| | | |

## LENGTH AND SPACING TABLE

| APPROACH SPEED* | | MINIMUM TAPER LENGTH** | LENGTH OF BUFFER SPACE | CHANNELIZING DEVICE | | |
|---|---|---|---|---|---|---|
| | | | | TAPER AREA | BUFFER SPACE | WORK SPACE |
| MPH | km/h | METER | METER | SPACING IN METERS | | |
| 25 | 40 | Shoulder taper formula: | 50 | 8 | 15 | 15 |
| 30 | 50 | $L = \frac{WS^2}{465}$ for S < 70 km/h | 65 | 9 | 18 | 18 |
| 35 | 55 | $L = \frac{WS}{4.8}$ for S ≥ 70 km/h | 75 | 10 | 21 | 21 |
| 40 | 65 | Where: | 95 | 12 | 24 | 24 |
| 45 | 70 | L = Minimum length of taper<br>W = Width of offset in meters | 105 | 14 | 27 | 27 |
| 50 | 80 | S = Metric equivalent of posted speed limit or 85 percentile speed prior to work in kilometers per hour | 130 | 15 | 30 | 30 |
| 55 | 90 | | 160 | 16 | 33 | 33 |

* Approach speed based on the regulatory posted speed, not the advisory speed.

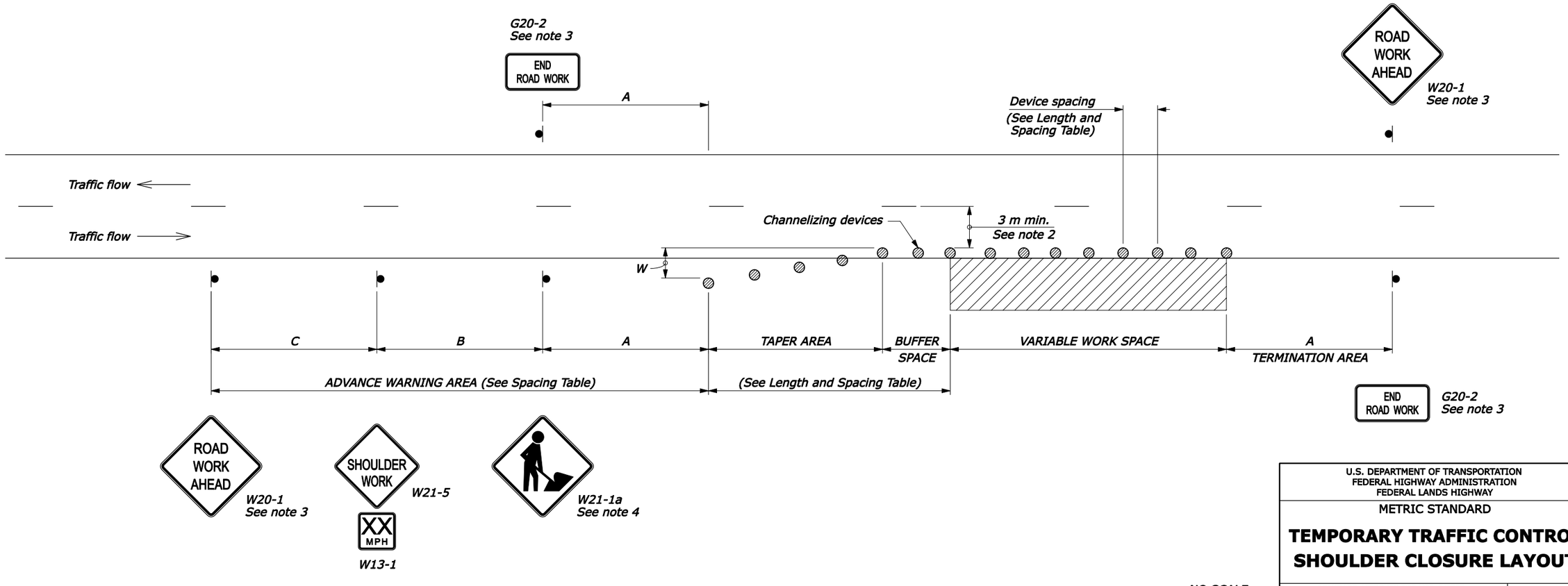
** Lengthen taper as needed to provide minimum of three channelizing devices in taper at required spacing.

## SIGN SPACING TABLE

| ROAD TYPE | DISTANCE BETWEEN SIGNS IN METERS | | |
|---|---|---|---|
| | A | B | C |
| Urban less than 70 km/h (≤ 40 MPH) | 30 | 30 | 30 |
| Urban 70 km/h and greater (≥ 45 MPH) | 100 | 100 | 100 |
| Rural | 150 | 150 | 150 |
| Expressway/Freeway | 300 | 450 | 800 |

## NOTE:

1. Final location and spacing of signs and devices may be changed to fit field conditions as approved by the CO.
2. Refer to Special Contract Requirements, Section 156, for minimum width.
3. If shoulder closure is completely within the project limits, eliminate the "ROAD WORK AHEAD" (W20-1) and "END ROAD WORK" (G20-2) signs.
4. Remove or cover Workers symbol sign (W21-1a) when workers are not present.
5. Do not allow equipment, materials, or vehicles to be parked or stored in the buffer space.
6. If signs will be in place more than 72 consecutive hours, use ground-mounted post.




NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
FEDERAL LANDS HIGHWAY

METRIC STANDARD

# TEMPORARY TRAFFIC CONTROL SHOULDER CLOSURE LAYOUT

| STANDARD APPROVED FOR USE 6/2005 | STANDARD |
|---|---|
| REVISED: | M635-10 |

15-Jun-2005 12:28 PM

F:\StanDrawlst63310.dgn [Metric]